

Curriculum Vitae

Gebisa Ejeta

*Distinguished Professor, Plant Breeding and Genetics, and International Agriculture
Purdue University, Department of Agronomy*

Lilly Hall of Life Sciences
915 West State Street
West Lafayette, IN 47907-2054 USA

Phone: (765) 494-4320
Fax: (765) 496-2926
Email: gejeta@purdue.edu

EDUCATION

B.S. Alemaya College, Ethiopia; Plant Sciences, 1973
M.S. Purdue University; Plant Breeding and Genetics, 1976
Ph.D. Purdue University; Plant Breeding and Genetics, 1978

PROFESSIONAL POSITIONS

2011-present Director, Purdue Center for Global Food Security
2007-present Distinguished Professor, Plant Breeding and Genetics, Purdue University
1992-2007 Professor of Plant Breeding and Genetics, Purdue University
1988-1992 Associate Professor of Plant Breeding and Genetics, Purdue University
1984-1988 Assistant Professor of Plant Breeding and Genetics, Purdue University
1979-1983 Principal Plant Breeder, International Crop Research Institute for the Semi-Arid Tropics (ICRISAT), Wad Medani, Sudan

ACADEMIC, PROFESSIONAL AND SCHOLARLY SOCIETIES

- American Association for the Advancement of Sciences (AAAS)
- American Society of Agronomy (ASA)
- Crop Science Society of America (CSSA)
- African Crop Science Congress (ACS)
- Sigma Xi
- Gamma Sigma Delta
- Phi Beta Delta

AWARDS AND HONORS

- Appointed by Secretary General Ban Ki Moon to the First UN Scientific Advisory Board, 2014-2016.
- Appointed by President Obama to the US Government Board for International Food and Agricultural Development (BIFAD), 2011-Present.
- Appointed US Government Presidential Science Envoy, US State Department, 2011-2012.
- Served as Special Advisor to USAID Administrator, Rajiv Shah, 2010-2011.
- Honorary Doctorate, Haramaya University, Ethiopia, 2015.
- Honorary Doctorate, Jimma University, Ethiopia, 2012.
- Honorary Doctorate, Oklahoma State University, 2011.
- Certificate of Excellence in Research and Research Leadership, Ethiopian Institute of Agricultural Research (EIAR), 2016.
- Morrill Award for excellence in teaching, research, and engagement, Purdue University, 2015.
- Henry Bennett Distinguished Fellow, School of International Studies, Oklahoma State Univ., 2010.
- Outstanding Scientific Achievement Award, Society of Ethiopians in Diaspora, 2010.

- Dow Agro-Sciences Award for Outstanding Contribution to Global Agriculture, 2009.
- Crop Science Society of America, Presidential Award, 2009.
- Indiana Hero Award, Indiana Pacers, 2010.
- Received the World Food Prize, World Food Prize Foundation, 2009.
- Received the State of Indiana's P.E. Nelson Prize for Innovation, 2009.
- Commemoration by State of Indiana General Assembly, 2009.
- Received the Government of Ethiopia's National Hero Medal (Science), 2009.
- Distinguished Professor of Plant Breeding and Genetics, Purdue University, 2007.
- Received Certificate of Recognition from Govt. of Ethiopia for contributions in combating *Striga* in Ethiopia and other African countries, 2007.
- Outstanding Journal Article of the Year on Plant Gen. Resources, Crop Sci. Soc. of America, 2005.
- Distinguished Career Achievement Award, International Sorghum & Millet Research, INTSORMIL, 2002.
- Purdue School of Agriculture Dean's Interdisciplinary Team Member Award, 1998.
- Distinguished Scientific Career Award, African Crop Science Congress, 1997.
- International Service in Agronomy Award, American Society of Agronomy, 1997.
- International Service in Crop Science Award, Crop Science Society of America, 1994.
- Member, International Water Management Institute Board of Trustees, 2016-present.
- Member, Executive Committee of APLU Challenge of Change Commission, 2016.
- Member, Executive Board of the Global Crop Diversity Trust, 2014-Present.
- Member, US National Academy of Science Board of Agriculture & Natural Resources (BANR), 2013-Present.
- Member, Chicago Council Global Food and Agriculture Program, 2011-Present
- Member, Sasakawa Africa Association Board, 2010-2013.
- Member, CGIAR Consortium Board, 2010-2013.
- Member, Science Council of the CGIAR, 2008-2010.
- Fellow, African Academy of Sciences, 2013.
- Fellow, American Association for the Advancement of Sciences, 2005.
- Fellow, American Society of Agronomy, 1995.
- Fellow, Crop Science Society of America, 1994.
- Silver plaque for Outstanding Contribution to Agriculture of the Sudan, from the Sudan Agricultural Research Corporation, 1983.
- Graduated with Highest Distinction and a Special Award as the Outstanding Graduate from Alemaya College of Agriculture, Ethiopia, 1973.

DISTINGUISHED LECTURES (2009-2016)

- Keynote Address, FAO International Symposium on the Role of Agricultural Biotechnologies in Sustainable Food Systems and Nutrition, Italy, 2016.
- Keynote Address, CGIAR Independent Science and Partnership Council's (ISPC) Science Forum, Ethiopia, 2016.
- Panelist, CGIAR Independent Science and Partnership Council's Science Forum, Ethiopia, 2016.
- Keynote Address, UN and Government of Germany Forum of International Academic Sciences, University of Bonn, Germany, 2016.
- Panel Moderator, World Food Prize Borlaug Dialogue, 2016.
- Panelist, World Food Prize Dialogue, 2016.
- Keynote Address, BASF Science Symp. on Sustainable Food Chain from Field to Table, 2015.
- Keynote Address, Association for International Agriculture and Rural Development (AIARD) Conference, 2015.
- ACES Distinguished International Lecture, University of Illinois, 2015.

- Panelist, Consortium of Universities for Global Health Conference, 2015.
- Panelist, American Association for the Advancement of Sciences Riley Lecture, 2014.
- Keynote Address, American Seed Trade Association Conference, 2014.
- Keynote Address, World Food Research & Innovation Forum, Italy, 2014.
- Glenn Anderson Lecture, 10th International Congress of Plant Pathology, China, 2013.
- Panelist, Global Diaspora Forum, 2013.
- Panelist, Goldman Sachs Asset Management Growth Market Summit, 2013.
- Keynote Address, Pioneer Achievements in Research Recognition Program, 2013.
- Keynote Address, Wheaton College Symposium in Human Needs and Global Resources, 2013.
- Panelist, African Green Revolution Forum, Tanzania, 2012.
- Keynote Address, Monsanto Plant Breeding Fellows Dinner, 2012.
- Keynote Address, Alliance for a Green Revolution in Africa Plant Breeder Conf., Kenya, 2012.
- Panelist, APLU Convocation: 150 Years of the Morrill Act, 2012.
- Panelist, President's Council of Advisors on Science and Technology Meeting, 2011.
- Panelist, National Academy of Science Global Science Policy Workshop, 2011.
- Panelist, Clinton Global Initiative Annual Roundtable on "Securing Global Nutrition", 2011.
- Moderator, Roundtable of Presidents of African Nations at the World Food Prize Norman Borlaug Annual Dialogue, 2011.
- Guest, "Exchange with the Frontier with A. C. Grayling, the BBC and Wellcome Collection Joint Program on Eminent Scientists, London, 2011.
- Guest, BBC Midweek with Libby Purves, London, 2011.
- E. T. York Distinguished Lecture, Auburn University, 2011.
- Keynote World Science Forum, Budapest, Hungary, 2011.
- Keynote Address, Norwegian Biotechnology Advisory Board, Oslo, Norway, 2010.
- Keynote Address, Purdue Center for Food and Agribusiness Conference, 2010.
- Keynote Address, Sinai Forum, Purdue North Central, 2010.
- Keynote Address, Danz Endowed Lecture, University of Washington, Seattle, 2010.
- Keynote Address, SBE Food Security Symposium, Lancaster University, England, 2010.
- Keynote Address, Barwale Foundation Annual Symposium, India, 2010.
- Keynote Address, National Association of Plant Breeders, Iowa, 2010.
- Keynote Address, World Food Science Congress, Cape Town, South Africa, 2010.
- Keynote Address, XXVII Brazilian Weed Science Congress, 2010.
- Keynote Address, 2nd Int. Symp. Genomics of Plant Gen. Resources, Italy, 2010.
- Keynote Address, 159th BIFAD Symposium, Washington DC, 2010.
- 37th H. K. Hayes Distinguished Lecture, University of Minnesota, 2010.
- Sigma Xi Distinguished Lecture, Purdue University, 2010.
- Wes Watkins Distinguished Lecture, Oklahoma State University, 2010.
- IDRC 40th Anniversary Inaugural Address, Speakers of Renown Series, Ottawa, 2010.
- Roundtable on Global Food Security, US Treasury, Washington DC, 2010.
- Roundtable with Charlie Rose, PBS, Global Challenges Genomic Solutions, 2010.
- E. T. York Distinguished Lecture, American Society of Agronomy, 2009.
- The Norman E. Borlaug Annual Lecture, Iowa State University, 2009.
- Laureate Lecture, World Food Prize, 2009.
- U. S. Senate Committee on Foreign Relations Testimony on Global Food Security, 2009.

Selected Publications:

1. Gobena, D., M. Shimels, P. Rich, C. Ruyter-Spira, H. Broumeester, S. Kanuganti, T. Mengiste, and G. Ejeta. 2017. Mutation in sorghum, LOW GERMINATION STIMULANT 1 alters strigolactones and causes *Striga* resistance. Proc. National Acad. Sci. 114(17): 4471-4476
2. Pérez-Vich, B., L. Velasco, P.J. Rich, and G. Ejeta. 2013. Marker-assisted and physiology-based breeding for resistance to root parasitic Orobanchaceae. Parasitic Plant Systems. 21:369-391.
3. Ejeta, G. 2013. Global Food Security: Humanity's foremost challenge of the 21st century. Cultures. 1:18-25.
4. Satish, K., Z. Gutema, C. Grenier, P. Rich, and G. Ejeta. 2012. Molecular tagging and validation of microsatellite markers linked to the low germination stimulant gene (lgs) for *Striga* resistance in sorghum [*Sorghum bicolor* (L.) Moench]. Theor. Appl. Genetics 122(11):1763-1769.
5. Ejeta, G. 2010. African Green Revolution Needn't Be a Mirage. Science. 327:831-832.
6. Saballos, A., G. Ejeta, E. Sanchez, C. Kang, and W. Vermerris. 2009. A genome-wide analysis of the cinnamyl alcohol dehydrogenase family in sorghum (*Sorghum bicolor* (L.) Moench) identifies SbCAD2 as the brown midrib6 gene. Genetics 181:783-795.
7. Knoll, J. E. and G. Ejeta. 2008. Marker-assisted selection for early season cold tolerance in sorghum: QTL validation across populations and environments. Theor. Appl. Genet. 116:541-553.
8. Tesso T., B. Hamaker and G. Ejeta. 2008. Sorghum protein digestibility is affected by dosage of mutant alleles in endosperm cells. Plant Breeding 127: 579-586.
9. Rich, P. J., C. Grenier, and G. Ejeta. 2004. *Striga* resistance in the wild relatives of sorghum. Crop Sci. 44:2221-2229.
10. Mohamed, A., A. Ellicott, T. L. Housley, and G. Ejeta. 2003. Hypersensitive response to *Striga* infection in sorghum. Crop Sci 43:1320-1324.
11. Tuinstra, M., G. Ejeta, and P. Goldsbrough. 1997. Heterogenous inbred family (HIF) analysis: a method for developing near-isogenic lines that differ at quantitative trait loci. Theor. Appl Genet. 95:1005-1011.
12. Ejeta, G. and L. G. Butler. 1993. Host plant resistance to *Striga* pp. 561-569. In: D. R. Baxton et al. (eds.) Int. Crop Science Congress 1. Crop Science Society of America. Madison. WI.
13. Hess, D., L.G. Butler, and G. Ejeta. 1992. Selecting sorghum genotypes expressing a quantitative biosynthetic trait that confers resistance to *Striga*. Phytochemistry 31:493-497.
14. Ejeta, G. 1988. Development and spread of Hageen Dura-1, the first commercial sorghum hybrid in the Sudan. Appl. Agr. Res. 3 (1):29-35.
15. Ejeta, G. M.M. Hassen, and E.T. Mertz. 1987. In vitro digestibility and amino acid composition of pearl millet (*Pennisetum typhoides*) and other cereals. Proc. Natl. Acad. Sci. USA 84:6016-6019.